

ABSTRACT

The present invention comprises an illumination portion (11), which is disposed in a surveying machine body (8), for illuminating measurement light toward a reflector (2), a light receiving portion (12), 5 which is disposed in the surveying machine body (8), having an image sensor for receiving a reflection light image (M0) of the measurement light illuminated toward the reflector (2), arithmetic means (37) for calculating a position in an area (Q2) of the image sensor (27) for the reflection light image (M0) from the reflector, and a rotation mechanism 10 for rotating the survey machine body (8) so as to position the reflector (2) on a light receiving optical axis (O2) of the light receiving portion (12) based on the position obtained by the arithmetic means (37), and a light receiving area (Q3) which is a smaller area than the area (Q2) of the image sensor (27) and has the light receiving optical axis (O2) as a 15 center is provided in the area (Q2) of the image sensor (27).